```
L #5
 CINE (compare and jump if not equal)
              A, # data, label
              A, direct, label, memory location
              Rn, # data, Casel
             7 ORi, #data, lasel
(JNE R3, #254, NEXT~
                              R1 + 25 h
```

SIMP EXIT THERE : R3 < 25h Exit.

CJNE

CJNE

(SNE

CONE

R3 = 25h

R3 >25h

write a program to check the content of R3 as follows

if $R_3 = 25h$, then save 55h in A if $R_3 > 25h$, then , AAh in A if $R_3 < 25h$, , hen , L' in A

CINE RI, #25h, NEXT

MOV A, #55 h SJMP Exit

NEXT: JC Less

MOV A, # OAAh SJMY Exit

Less: MOV A, #'L'

Exit:

	3
	7
_	رد

Addressing modes:

- Addressing mode is a method of specifying operands 11 modes are various ways of accessing data.

* Data could be:

1) Memory RAM
ROM

- 2) Register
- 3) immediate (in the instruction itself).

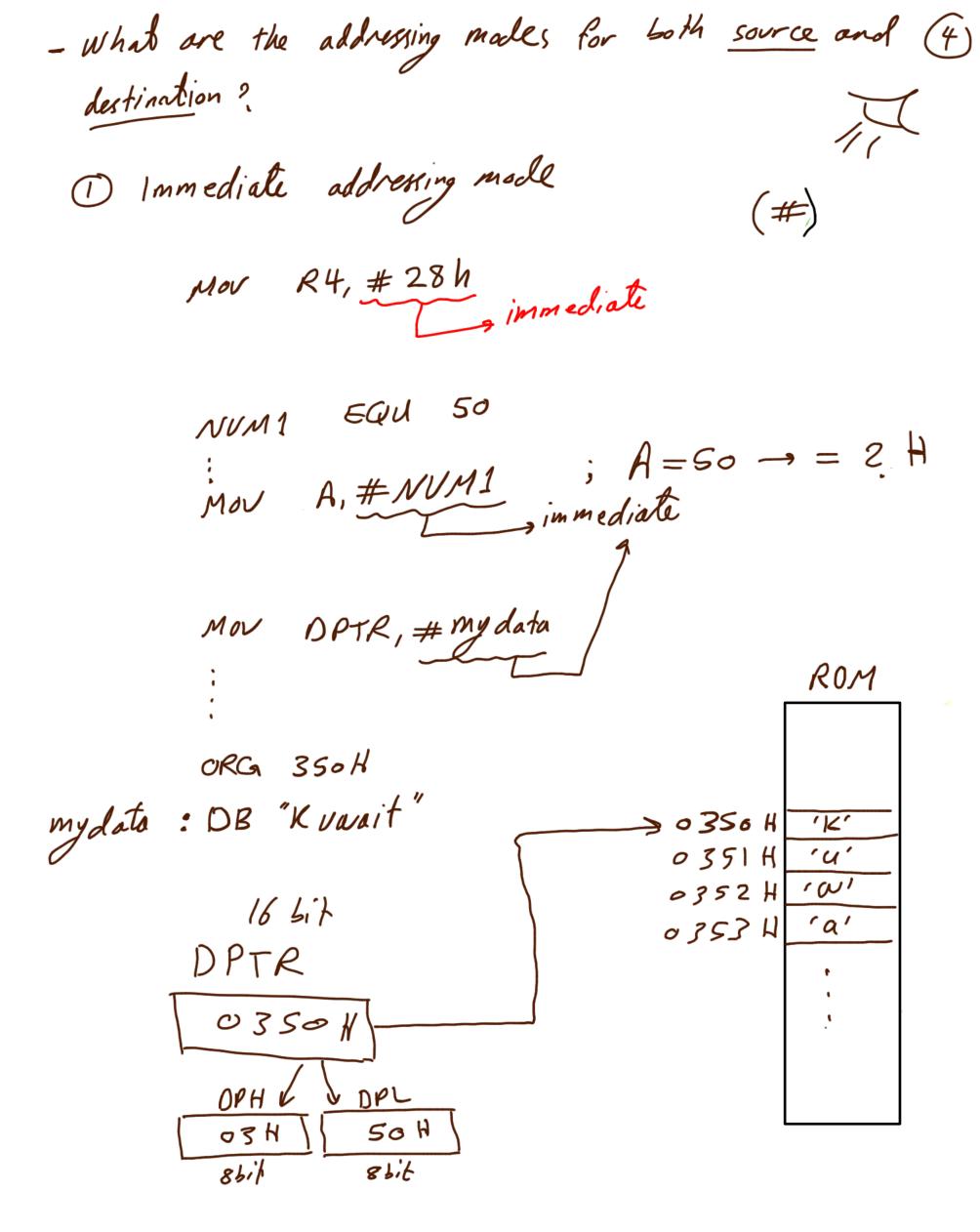
* 805) has 5 addressing modes

1- Immediate addressing mode

z-Register "

3-Direct "

3-Direct " " ?
4-Register indirect " "
5-Indexed addressing mode



2) Register addressing made

Mov A, R4

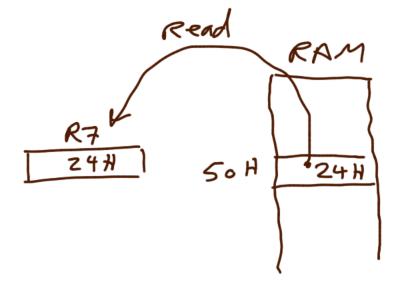
Register & Register

MOV A, DPH

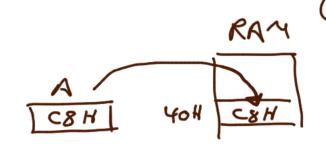
3 Direct addressing mode

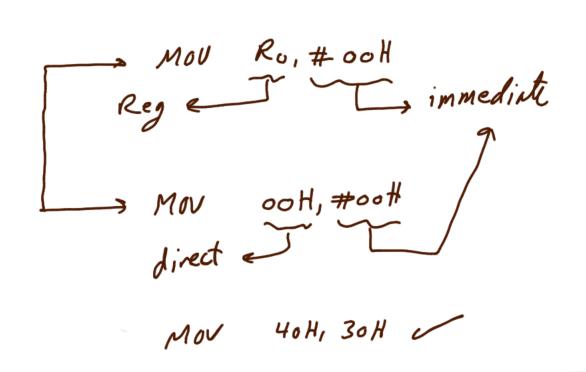
(00H → 7FH) RAM JU (80H → FFH) SFR

Mor R7, 50 H Register and direct



Mor 40 H, A Tirect Constitution

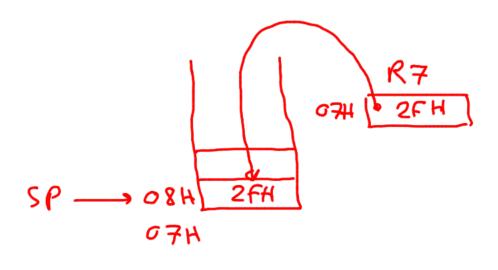




Ry MOV R7, #2FH

PUSH 7

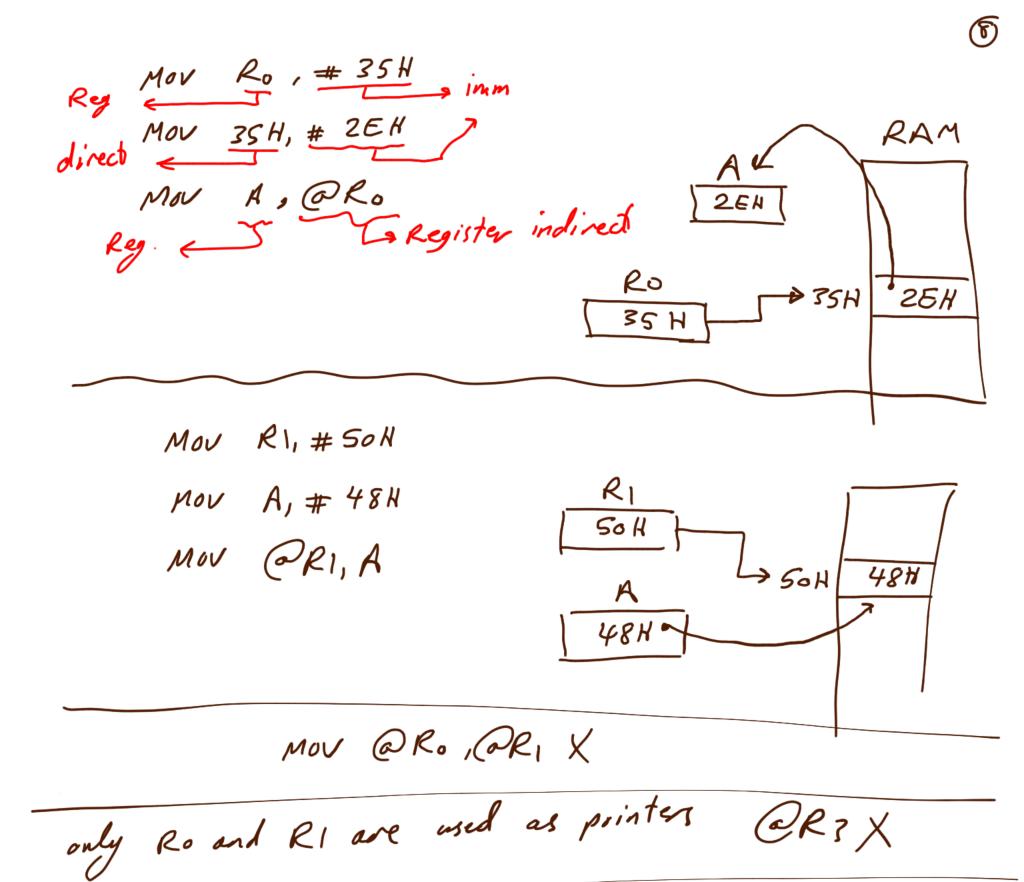
PUSH 07H



POP 4 Ladirect

push and pop use only direct addressing mode. (
push the content of R7 from bank? in to stack
PUSH 7 X
PUSH IFH
SETB 2FH direct
4) Register indirect
Ro and RI are used as pointers to memory @Ro locations (ooH -> 7FH) RAM or to external memory (ooH -> FFH) @DPTR
or to external memory (00 H - FFH) @OPTR
OPTR is used as pointer to enternal

RAM OF ROM (OOOOH - FFFFH)



Α.

